Centralized content-based Web filtering and blockir far can it go?

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Abstract:
To an organisation, centralized Internet filtering and blocking is very importar Educators and parents would like to block offensive materials from children. C also want to reduce the amount of work time that employees spend on non-p Web surfing. Current blocking and filtering mechanisms can roughly be **classi** two approaches: URL-based and content filtering. In the URL-based approach requested URL address is blocked if a **match** is found in the blocked **list**. How keeping the **list** up-to-date is very difficult. In the content filtering approach, **matching** is often used. Its main problem is mis-blocking. Many desirable We blocked because some predefined **keywords** appear in their Web pages, thou different meaning or context. There are suggestions for image, audio and vide understanding in real-time content filtering. The delay time is also of great co this paper, we investigate how far multimedia content analysis should go for l filtering and blocking. A set of guidelines for defining the heuristics used in re content analysis is also given. These heuristics not only have higher filtering a than most multimedia retrieval techniques do, but they also have a comparat overhead to that of **keyword matching**. Our experience of deploying a porn filtering system in high schools is also described. Experience from the system implementation and deployment is found to give a very good direction to the filtering and blocking of Web content

Index Terms:

Internet information analysis information resources multimedia systems real-time : Internet filtering URL address blocking Web site blocking World Wide Web central filtering delay time filtering accuracy heuristics high schools **keyword matching** misblocking multimedia content analysis multimedia retrieval techniques nonproduc surfing offensive materials pornography real-time content filtering runtime overhea

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